**Short Answers:**

**Unit I:**

1. Define Scripting Languages
2. What are the characteristics of scripting Languages?
3. What are the uses of Scripting Languages?
4. What is a Script?

**Unit II:**

1. What are various operators supported in Python.
2. Differentiate between integer and floating-point numbers.
3. What are literals? Explain with the help of examples.
4. What are Comments? Explain their utility.

**Unit III:**

1. It is necessary for every ***if*** block to be accompanied with an ***else*** block. Comment on this statement with the help of an example.
2. What is the syntax of for loop.
3. What is the utility of break statement?
4. What is the utility of continue statement?

**Unit IV:**

1. What do you understand by the term arguments? How do we pass them to a function?
2. Define docstring. Show how a docstring is accessed using the \_\_doc\_\_ attribute with the help of an example
3. What are the modules? How do you use them in your programs?
4. What are the packages in python?
5. Define List. State the syntax for creating a list.

**Unit V:**

1. What are different access modes in which you can open a file?
2. What are files? Why do we need them?
3. Describe the usage of “with” statement for opening file with the help of an example.
4. Is it mandatory to call the close()method after using the file?

**Long Answers:**

**Unit I:**

1. Explain the differences between Scripting Languages and Non-scripting Languages.
2. Explain usage of Scripting Languages in different applications.
3. What are the different scripting languages available and how they are helpful in today’s day-to-day life?
4. Explain the advantages and disadvantages of Scripting Languages.

**Unit II:**

1. Write a program to demonstrate printing a string within single quotes, double quotes and triple quotes.
2. Python variables do not have specific types. Justify this statement with the help of an example.
3. Write a program to swap two numbers using a temporary variable.
4. Write a program to read a character in uppercase and then print it in lower case.

**Unit III:**

1. With the help of an example, explain the utility of range().
2. Write a program to sum the series – 1/2 + 2/3 + ….+n/(n+1)
3. Write a program to input two numbers and check whether they are equal or not.
4. Explain the usage of % operator for formatting strings.

**Unit IV:**

1. What is a dictionary? Explain the following operations on dictionary with the help of examples: creating a dictionary, accessing values, modifying values, deleting items.
2. What are user-defined functions? With the help of an example illustrate how you can have such functions in your program.
3. Write a program to create two sets called even and odd, which store even and odd numbers up to 20. Further, the program should implement set operations union, difference and intersection on these sets. Show the output of these operations.
4. What is meant by variable scope and lifetime with respect to local and global variables? Demonstrate variable-length arguments with the help of an example.

**Unit V:**

1. Describe file object attributes and demonstrate them with the help of an example.
2. Discuss some directory methods present in the os module.
3. Write a program which counts and displays number of characters in a given file
4. Explain the following file object methods along with their syntax: seek(), tell(), rename() and remove()